

3 stored with an indication of [its] a corresponding data item and an indexing value, the
4 method comprising:

5 receiving a specification for analyzing values among the stored values, the
6 specification specifying one or more context attributes, a range of indexing values, and an
7 analysis technique;

8 retrieving stored values for the specified context attributes within the specified
9 range of indexing values; and

10 applying the specified analysis technique to the retrieved values to produce an
11 analysis of the context attributes.

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1 76. (Amended) The method of claim [63] 75 wherein the pattern specified
2 outside the log characterizes a particular diagnosis of user condition, and wherein the
3 specified analysis technique further attributes the diagnosis to the user condition reflected in
4 the retrieved context attribute values.

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1 78. (Amended) A computing device for retroactively analyzing a log of
2 context attribute values, each context attribute value contained by the log being stored with
3 an indication of [its] a corresponding data item and an indication of its effective time,
4 comprising:

5 a specification receiver that receives a specification for analyzing values among
6 the stored value, the specification specifying one or more context attributes, a range of
7 effective times, and an analysis technique;

8 a value retrieval subsystem that retrieves stored values for the specified context
9 attributes within the specified range of effective times; and

10 an analysis subsystem that applies the specified analysis technique to the
11 retrieved values to produce an analysis of the context attributes.

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1 82. (Amended) The method of claim 81 wherein a sequence of values of
2 each of the selected context attributes is to be recorded, the method further comprising
3 receiving user input specifying a speed at which to substitute the values of each sequence for
4 the current values of the selected context attributes relative to a speed at which the sequence
5 of values are to be recorded.

1 83. (Amended) A method in a computing device for conducting a
2 simulation of selected earlier-occurring conditions for the benefit of a data consumer,
3 comprising:

4 of a multiplicity of data items whose values are available in real-time in the
5 computing device, selecting a subset of the available data items to include in the simulation;

6 during a simulation period, for each of the selected data items, making
7 available a sequence of earlier-recorded values for the selected data item in place of the real-
8 time values of the selected data item,

9 such that, during the simulation period, earlier-recorded values are available for the selected
10 data items, while real-time values are available for data items other than the selected [date]
11 data items.

[Please add the following claims:]

1 SUB C117 86. The method of claim 9 wherein the computing device in which the
2 method is performed is a mobile computer system.

1 87. The method of claim 9 wherein the computing device in which the
2 method is performed is a body-supported computer system.

1 88. The method of claim 41 wherein the computing device in which the
2 method is performed is a mobile computer system.

1 A6 89. The method of claim 41 wherein the computing device in which the
2 method is performed is a wearable computer system.

1 90. The method of claim 54 wherein the computing device in which the
2 method is performed is a mobile computer system.

1 91. The method of claim 54 wherein the computing device in which the
2 method is performed is a body-supported computer system.

1 92. The method of claim 63 wherein the computing device in which the
2 method is performed is a mobile computer system.

1 93. The method of claim 63 wherein the computing device in which the
2 method is performed is a wearable computer system.

1 94. The method of claim 83 wherein the computing device in which the
2 method is performed is a mobile computer system.

1 95. The method of claim 83 wherein the computing device in which the
2 method is performed is a body-supported computer system.

Ab 1 96. The method of claim 83, further comprising, before making available a
2 sequence of earlier-recorded values for the selected data item in place of the real-time values
3 of the selected data items, modifying at least one of the earlier-recorded values in the
sequence.

1 97. The method of claim 83, further comprising receiving user input
2 identifying data items to include in the simulation, and wherein the data items identified by
3 the user input are selected to include in the simulation.

1 98. The method of claim 83, further comprising receiving user input
2 specifying the simulation period.

1 99. A method in a computing device for simulating a user context for the
benefit of a data consumer, comprising:

3 of a multiplicity of data items whose values are available in real-time in the
4 computing device, selecting a subset of the available data items to include in the simulation;

5 for each of the selected data items:

6 procuring a sequence of values for the selected data item that differs from the
7 real-time values of the selected data item; and

8 during a simulation period, making available the procured sequence of values
9 for the selected data item in place of the real-time values of the selected data item,
10 such that, during the simulation period, procured values are available for the
11 selected data items, while real-time values are available for data items other than the selected
12 data items.

1 100. The method of claim 99 wherein the procuring involves, for each of the
2 selected data items, generating a sequence of values for the selected data item that differs
3 from the real-time values of the selected data item.

Ab 1 101. The method of claim 99 wherein data item values are provided by a
2 characterization module in response to requests from data item consumers, the method
3 further comprising, in the characterization module:

4 receiving a request for a data item from a requesting data item consumer;
5 determining whether the requested data item is among the selected data items;
6 if the requested data item is among the selected data items, providing the
7 requesting data item consumer with an procured value of the data item; and
8 if the requested data item is not among the selected data items, providing the
9 requesting data item consumer with a real-time value of the data item.

1 102. The method of claim 101, further comprising, if the requested data item
2 is not among the selected data items, obtaining the provided real-time value of the data item
3 from a source associated with the data item.